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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY USSR

SUBJECT Requests for Ceramic Coating and Afterburner Reprints.

PLACE ACQUIRED
(BY SOURCE) - - - -

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(BY SOURCE)

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- a. Request for "Ceramic Coatings Solve High Temperature Problems" (Society of Automotive Engineers, 4 Oct 52) from Biblioteka, Frunze 19, Moscow, dated 22 Apr 53. The data contained in this reprint is very general in nature and indicates the status of the ceramic coating problem as it existed in the US in early 1947. The article requested sets forth several research programs which had not been successful but there is no indication in this reprint of a new or unusual US research trend. Actually, the article in question tends to steer research engineers up various blind alleys. I doubt very much if this request indicates any new orbit research trend because it is accepted that the USSR has a high temperature alloy problem. If this request indicates the current stage of this problem in the USSR, the Eastern European experts have a minimum of seven years research to catch up with the US program. It is my personal feeling that our progress since 1947 has been remarkable. Several big "breaks" contributed greatly to this progress and, unless the USSR is equally as lucky, they have many blind alleys confronting them. This is the first request from USSR for reprints that I have received.
- b. Request for "Afterburners and Variable Nozzles" (Society of Automotive Engineers, 4 Oct 52) from Biblioteka, Frunze 19, Moscow, dated May 1953. The data contained in this article are ancient history as far as US research is concerned. The specific design problems presented are those which were overcome in early 1946. The comments set forth regarding the ceramic coating problem would also apply to this article, ie if this data are of interest to the current USSR research personnel, the Eastern Europeans are a minimum of seven years behind the US engineers.

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